

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Xiaopeng Chen et al. Art Unit : 2618  
Serial No. : 10/762,153 Examiner : Sanh D. Phu  
Filed : January 20, 2004 Confirmation No.: 4951  
Notice of Allowance Date: August 18, 2008  
Title : METHOD AND APPARATUS FOR REDUCING ECHO AND CROSSTALK IN  
A COMMUNICATION SYSTEM

**MAIL STOP ISSUE FEE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**COMMENTS ON EXAMINER'S REASONS FOR ALLOWANCE**

It is recognized that in accordance with M.P.E.P. § 1302.14, the Examiner's reasons for allowance need not set forth all of the details as to why the claims are allowed. In the above-referenced application, it is not conceded that the Examiner's stated reasons for allowance are the only reasons for which the claims are allowable.

For example, with respect to claim 1, the Office states that "none of the prior art of record teaches or suggests . . . a digital compensation circuit to generate a digital replica of the interference signal contained in the analog communication signal; a converter to convert the digital replica of the interference signal into a corresponding analog replica of the interference signal; and a subtraction circuit to subtract the analog replica of the interference signal from the analog communication signal, wherein the digital compensation circuit includes a near-end crosstalk (NEXT) canceller to generate a digital replica of a NEXT interference signal in the analog communication signal, wherein the digital compensation circuit further: determines cancellation coefficients that model an impulse response of the interference signal; and multiplies the cancellation coefficients with a communication signal from a transmitter that causes the interference signal." *See* page 2, item 3, lines 5-16 of the Notice of Allowance.

It is respectfully submitted that the cited references also do not teach or suggest, *inter alia*, a receiver to receive an analog communication signal, the analog communication signal containing an interference signal.

As another example, with respect to claim 54, the Office states that "none of the prior art of record teaches or suggests . . . a NEXT canceller, the NEXT canceller operable to generate a digital replica NEXT interference signal; a converter to convert the digital replica of the NEXT interference signal into a corresponding analog replica of the NEXT interference signal; and a

subtractor to subtract the replica NEXT interference signal from an analog communication signal received by the receiver, wherein the NEXT canceller is further operable to: determine cancellation coefficients that model an impulse response of an interference signal; and multiply the cancellation coefficients with a communication signal from the transmitter."

It is respectfully submitted that none of the prior art of record teaches or suggest, *inter alia*, a NEXT canceller associated with a receiver, the NEXT canceller to receive a transmitted signal from a local transmitter, the NEXT canceller operable to generate a digital replica NEXT interference signal based on the transmitted signal. Of course, these are mere examples, and other reasons for patentability may also exist. With respect to the remaining independent claims, the Examiner's stated reasons for allowance also are not the only reasons for which these claims are allowable.

In addition, each dependent claim stands on its own and may be allowable on its own merits. In particular, each dependent claim may be allowable on the basis of a combination of some of the features recited in the dependent claim and its base claim(s), which combination of features may not include all of the limitations identified in the Examiner's reasons for allowance.

Please apply any additional charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: November 18, 2008

/Alex Chan/

Alex Chan  
Reg. No. 52,713

Customer No. 26200  
Fish & Richardson P.C.  
Telephone: (617) 542-5070  
Facsimile: (877) 769-7945